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1      **CLAIMS**

2. 1. A method of exposing commands in a software application program  
3 comprising:  
4        determining a user's context within an application program; and  
5        automatically displaying at least one command on a display for the user  
6 based on the user's context.
- 7
8. 2. The method of claim 1 further comprising automatically removing  
9 said at least one command from the display responsive to a change in the user's  
10 context.
- 11
12. 3. The method of claim 1, wherein the application program comprises a  
13 document-centric application program and said displaying does not obscure a  
14 document in which the user is working.
- 15
16. 4. The method of claim 1, wherein the application program comprises a  
17 document-centric application program and said at least one command is displayed  
18 in a modeless fashion in which the user can continue to work within a document  
19 while said at least one command is displayed.
- 20
21. 5. The method of claim 1 further comprising after said displaying,  
22 executing a command without requiring any action from a user other than  
23 selecting the command.
- 24
- 25

1           6. The method of claim 1, wherein said determining comprises  
2 ascertaining a position of a user's cursor within a document provided by the  
3 application program.

4  
5           7. The method of claim 1, wherein said determining comprises  
6 ascertaining a user's selection within a document provided by the application  
7 program.

8  
9           8. The method of claim 1, wherein said determining comprises one or  
10 more of:

11           ascertaining a position of a user's cursor within a document provided by the  
12 application program; and

13           ascertaining a user's selection within a document provided by the  
14 application program.

15  
16           9. The method of claim 1, wherein said context pertains to various tasks  
17 the user may attempt to accomplish.

18  
19           10. The method of claim 1, wherein said context pertains to one or more  
20 of the following: a type of document the user is working in, a state of a document  
21 the user is working in, a cursor's location within a document, and a particular user  
22 selection within a document.

1           11. The method of claim 1, wherein said displaying is independent of a  
2 user selecting any displayed menu item.

3  
4           12. One or more computer-readable media having computer-readable  
5 instructions thereon which, when executed by a computer, cause the computer to:  
6                 determine a user's context within an application program;  
7                 automatically display at least one command on a display for the user based  
8 on the user's context, said at least one command being displayed in a modeless  
9 fashion in which the user can continue to work within a document provided by the  
10 application program while said at least one command is displayed; and  
11                 automatically remove said at least one command from the user's display  
12 responsive to a change in the user's context.

13  
14           13. The computer-readable media of claim 12, wherein the computer  
15 determines the user's context by one or more of the following:

16                 ascertaining a position of a user's cursor within a document provided by the  
17 application program; and  
18                 ascertaining a user's selection within a document provided by the  
19 application program.

20  
21           14. A method of exposing commands in a software application program  
22 comprising:

23                 displaying a user interface comprising:

24                 a document area in which a user can work on a document that is  
25 provided by an application program; and

1                   a container area proximate the document area; and  
2                   automatically presenting one or more command sets in the container area  
3                   based upon a task that the user is attempting to accomplish on a document in the  
4                   document area.

5  
6                 15. The method of claim 14, wherein individual command sets are  
7                   defined by context blocks, at least one context block containing multiple  
8                   commands that are possible selections for the task that the user is attempting to  
9                   accomplish.

10  
11                16. The method of claim 15, wherein the context blocks are collapsible  
12                   within the user interface.

13  
14                17. The method of claim 15 further comprising:  
15                   receiving user input; and  
16                   responsive to receiving said input, displaying additional commands in the  
17                   container area.

18  
19                18. The method of claim 17, wherein said displaying of the additional  
20                   commands comprises replacing any context blocks in the container area with the  
21                   additional commands.

22  
23                19. The method of claim 17, wherein the additional commands are  
24                   displayed within a user-closeable context pane.

1           20. The method of claim 19, wherein the context pane is configured to  
2 remain open within the container area until it is closed by the user.

3  
4           21. The method of claim 19, wherein the context pane fills the container  
5 area.

6  
7           22. The method of claim 14 further comprising automatically removing  
8 said one or more command sets without requiring user intervention.

9  
10          23. The method of claim 14 further comprising automatically removing  
11 said one or more command sets when the user is no longer attempting to  
12 accomplish the task.

13  
14          24. The method of claim 14, wherein the container area has an expanded  
15 state and a contracted state.

16  
17          25. The method of claim 24 further comprising programmatically  
18 expanding the container area from the collapsed state to automatically display a  
19 command set.

20  
21          26. One or more computer-readable media having computer-readable  
22 instructions thereon which, when executed by a computer, cause the computer to:  
23              display a user interface comprising:

24                  a document area in which a user can work on a document that is  
25 provided by an application program; and

1           a container area proximate the document area;  
2           automatically present one or more command sets in the container area  
3 based upon a task that the user is attempting to accomplish on a document in the  
4 document area, individual command sets being defined by context blocks, at least  
5 one context block containing multiple commands that are possible selections for  
6 the task that the user is attempting to accomplish; and

7           automatically remove one or more context blocks when the user is no  
8 longer attempting to accomplish the task.

9  
10          **27.** Software code embodied on a computer-readable medium which,  
11 when executed by a computer, provides a user interface (UI) comprising:

12           a document area within which a user can work on a document that is  
13 provided by an application program; and

14           a container area proximate the document area configured to automatically  
15 display commands for a user based on the user's current context without obscuring  
16 a document that a user is working on within the document area.

17  
18          **28.** The software code of claim 27, wherein the commands are displayed  
19 in context blocks, individual context blocks containing multiple commands that  
20 are possible selections for a user based upon their context.

21  
22          **29.** The software code of claim 28, wherein the commands can further  
23 be displayed in context panes, each context pane being associated with a context  
24 block and being selectable for display by a user from its associated context block.

1           **30.** The software code of claim 28, wherein the context blocks are  
2 stackable within the container area.

3  
4           **31.** The software code of claim 28, wherein individual context panes  
5 replace context blocks within the container area.

6  
7           **32.** The software code of claim 31, wherein context panes must be  
8 closed by a user when the user no longer wishes to access commands within the  
9 context pane.

10  
11          **33.** The software code of claim 28, wherein the context blocks are  
12 configured so that they can be scrolled through by a user.

13  
14          **34.** A computer system comprising the user interface of claim 27.

15  
16          **35.** A method of exposing commands in a software application program  
17 comprising:

18           determining a user's context within an application program; and  
19           automatically displaying at least one context block on a display for the user  
20 based on the user's context, individual context blocks containing multiple  
21 commands that are possible selections for a user based upon their context.

1           **36.** The method of claim 35, wherein said determining comprises  
2 evaluating at least portions of one or more expressions, each expression being  
3 associated with a context block and defining a condition that describes one or  
4 more aspects of a user's interaction with the application program.

5  
6           **37.** The method of claim 36, wherein the expressions evaluate to  
7 Boolean values.

8  
9           **38.** The method of claim 35, wherein a user's context can be affected by  
10 one or more of the following: a document type, a document state, and objects  
11 within a document that can be selected by the user.

12  
13          **39.** The method of claim 35, wherein said displaying comprises  
14 displaying a context block having a title bar area that labels the context block.

15  
16          **40.** The method of claim 39, wherein the title bar area is configured to  
17 enable the context block to be toggled between expanded and collapsed states.

18  
19          **41.** The method of claim 39, wherein the title bar area comprises a menu  
20 display button that is configured to enable a menu that is associated with the  
21 context block to be displayed.

1           **42.** The method of claim 41, wherein the menu display button is  
2 associated with a menu that contains links to one or more context panes, each  
3 context pane comprising additional context-sensitive commands.

4  
5           **43.** The method of claim 35, wherein said displaying comprises  
6 displaying a context block with a controls area that exposes the multiple  
7 commands to the user.

8  
9           **44.** The method of claim 43, wherein a command display within the  
10 controls area is defined in HTML.

11  
12          **45.** The method of claim 35, wherein said displaying comprises  
13 displaying said at least one context block in a modeless fashion.

14  
15          **46.** A method of exposing commands in a software application program  
16 comprising:

17           determining a user's context within an application program;  
18           based on the user's context, displaying commands that are associated with  
19 the context and which can assist the user in accomplishing a task; and  
20           while the commands are being displayed, enabling the user to select and  
21 apply various commands multiple times.

22  
23          **47.** The method of claim 46 further comprising applying one or more  
24 selected commands, when selected by a user, without further user interaction.

1           **48.** The method of claim 46, wherein said displaying comprises  
2 displaying the commands responsive to the user selecting from a menu that is  
3 supported by an automatically-appearing and disappearing context block that  
4 contains context-sensitive commands.

5  
6           **49.** The method of claim 46, wherein said displaying comprises  
7 displaying the commands in a modeless manner.

8  
9           **50.** The method of claim 46, wherein said displaying comprises  
10 displaying the commands within a context pane having a title bar that labels the  
11 context pane and a controls area that exposes the commands to the user.

12  
13          **51.** The method of claim 50, wherein the context pane is not collapsible.

14  
15          **52.** The method of claim 50, wherein the context pane must be closed  
16 by the user.

17  
18          **53.** The method of claim 50, wherein the user must request the context  
19 pane to be displayed.

20  
21          **54.** The method of claim 50, wherein some of the commands in the  
22 controls area can be context-sensitive and are disabled if they are out of context.

1           **55.** The method of claim 50, wherein the context pane includes a  
2 context-sensitive help feature that displays help information that is contextually  
3 related to a context pane.

4

5           **56.** The method of claim 55, wherein the help feature is accessible via  
6 an icon on the title bar.

7

8           **57.** The method of claim 55, wherein the help feature is displayed in a  
9 modeless manner.

10

11          **58.** The method of claim 50, wherein multiple context panes are  
12 stackable in a queue.

13

14          **59.** One or more computer-readable media having computer-readable  
15 instructions thereon which, when executed by a computer, implement the method  
16 of claim 46.

17

18          **60.** A method of exposing commands in a software application program  
19 comprising:

20              associating multiple context blocks with individual expressions, individual  
21 context blocks containing one or more commands, individual expressions defining  
22 conditions that describe one or more aspects of a user's interaction with the  
23 application program;

24              evaluating at least portions of at least some of the expressions responsive to  
25 a change in the user's context; and

1           displaying, for the user, at least one context block responsive to said  
2 evaluating.

3  
4         **61.** The method of claim 60, wherein the expressions define conditions  
5 that describe one or more aspects of a user's interaction with a document.

6  
7         **62.** The method of claim 60, wherein said associating comprises  
8 maintaining a table with entries for the context blocks and their associated  
9 expressions.

10  
11         **63.** The method of claim 60, wherein the expressions are Boolean  
12 expressions.

13  
14         **64.** The method of claim 60, wherein said evaluating comprises:  
15           representing each expression as a tree structure having multiple nodes, each  
16 node comprising either an expression operand or an operation;  
17           associating a value with each of the nodes, the node values being capable of  
18 changing when a user's context changes;  
19           for some of the tree structures, evaluating values associated with less than  
20 all of the nodes to ascertain whether to display a context block associated with the  
21 tree structure.

22  
23         **65.** The method of claim 60, wherein said evaluating comprises:  
24           representing each expression as a tree structure having multiple nodes, each  
25 node comprising either an expression operand or an operation;

1 associating a value with each of the nodes, the node values being capable of  
2 changing when a user's context changes;

3 if a value for a particular node changes, and if the particular node has a  
4 parent node, notifying the parent node with the changed value and re-evaluating  
5 the parent node's value.

6  
7 66. The method of claim 65, wherein each tree structure has a root node,  
8 and further comprising displaying the context block associated with a tree  
9 structure only if the root node changes in value.

10  
11 67. One or more computer-readable media having computer-readable  
12 instructions thereon which, when executed by a computer, cause the computer to:

13 associate multiple context blocks with individual expressions, individual  
14 context blocks containing one or more commands, individual expressions defining  
15 conditions that describe one or more aspects of a user's interaction with the  
16 application program;

17 evaluate at least portions of at least some of the expressions responsive to a  
18 change in the user's context by:

19 representing each expression as a tree structure having multiple  
20 nodes, each node comprising either an expression operand or an operation,  
21 each tree structure having a root node;

22 associating a value with each of the nodes, the node values being  
23 capable of changing when a user's context changes; and

1           if a value for a particular node changes, and if the particular node  
2       has a parent node, notifying the parent node with the changed value and re-  
3       evaluating the parent node's value; and  
4       display, for the user, at least one context block responsive to said evaluating  
5       only if the root node of the tree structure that is associated with the context block  
6       changes in value.

7  
8       **68.** A data structure embodied on a computer-readable medium and  
9       configured for use in exposing commands in a software application program, the  
10      data structure comprising:

11           a root node having a value; and  
12           multiple nodes associated with the root node each of which having a value,  
13       the root node and multiple nodes being arranged to defined various parent/child  
14       relationships and collectively representing an expression that defines a condition  
15       that describes one or more aspects of a user's interaction with the application  
16       program;

17           each of the multiple nodes representing either an operation or an operand,  
18       individual multiple nodes being configured in a manner such that:

19           a change in value generates a notification to the node's parent; and  
20           a notification of a change in value from a child node causes a re-  
21       evaluation of the node's value;

22           the root node being configured such that a change in its value causes either  
23       the automatic display or removal of a set of context-sensitive commands that are  
24       appropriate for the user's context within the application program.

1           69. A computing system comprising:  
2           a single application program configured to provide:  
3           a single navigable window;  
4           multiple different functionalities to which the single navigable  
5           window can be navigated by a user; and  
6           at least one context-sensitive command area that is associated with  
7           the single navigable window, the single application program being  
8           configured to automatically change command sets that are presented to the  
9           user within the command area as the user navigates to different  
10           functionalities.

11  
12           70. The computing system of claim 69, wherein the single application  
13           program is configured to provide navigation instrumentalities associated with the  
14           single navigable window, the navigation instrumentalities being configured for use  
15           by the user to navigate the single window to the different functionalities.

16  
17           71. The computing system of claim 70, wherein one of the navigation  
18           instrumentalities comprises links associated with each of the multiple different  
19           functionalities to which the single navigable window can be navigated.

20  
21           72. The computing system of claim 70, wherein one of the navigation  
22           instrumentalities comprises browser-like navigation buttons that can be used, in  
23           connection with the navigation model, to navigate the single navigable window  
24           between the different functionalities.

1           73. The computing system of claim 69, wherein the multiple different  
2           functionalities comprise document-centric functionalities.

3  
4           74. A computing system comprising:

5           a single application program configured to:

6                 display a single navigable window for a user to use in navigating  
7                 between multiple different functionalities that can be provided by the single  
8                 application program;

9                 provide at least one context-sensitive command area that is  
10                 associated with the single navigable window, the single application  
11                 program automatically changing command sets that are presented to the  
12                 user within the command area as the user navigates to different  
13                 functionalities; and

14                 incorporate different functionalities in an extensible manner so that  
15                 the user can use the single navigable window to navigate to the different  
16                 incorporated functionalities.

17  
18           75. The computing system of claim 74, wherein the single application  
19           program is configured to provide navigation instrumentalities associated with the  
20           single navigable window, the navigation instrumentalities being configured for use  
21           by the user to navigate the single window to the different functionalities.

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76. The computing system of claim 75, wherein one of the navigation instrumentalities comprises links associated with each of the multiple different functionalities to which the single navigable window can be navigated.

77. The computing system of claim 75, wherein one of the navigation instrumentalities comprises browser-like navigation buttons that can be used to navigate the single navigable window between different functionalities.

78. A computing method comprising:  
displaying a user interface that comprises a single navigable window that can be navigated between multiple different functionalities that are provided by a single application program;  
receiving user input that indicates selection of a particular functionality; responsive to receiving said user input, navigating the single navigable window to the particular selected functionality and displaying in said window indicia of said functionality that can enable a user to accomplish a task associated with the particular selected functionality;  
determining a user's context within the selected functionality; and  
automatically displaying at least one command for the user based on the user's context.

79. The computing method of claim 78 further comprising automatically removing said at least one command from the display responsive to change in the user's context.

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